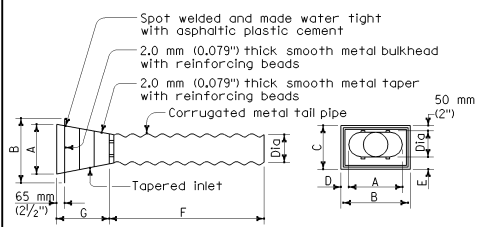


PLAN **END VIEW**

Bulkhead and taper of same thickness as tail pipe with 2.0 mm (0.079") maximum. Tail pipe of same thickness as downdrain pipe.

**ENTRANCE TAPER - TYPE 1
ALTERNATIVE A**



PLAN **END VIEW**

Tail pipe of same thickness as downdrain pipe.

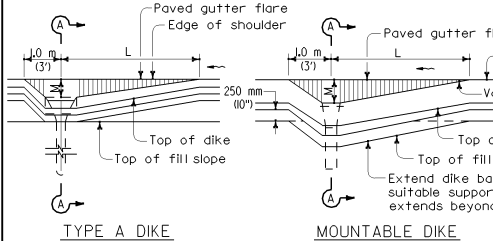
**ENTRANCE TAPER - TYPE 1
ALTERNATIVE B**

CMP dimensions as tabulated below

P	250 mm (10")	375 mm (15")	450 mm (18")	525 mm (21")	675 mm (27")
Q	200 mm (8")	300 mm (12")	375 mm (15")	450 mm (18")	600 mm (24")

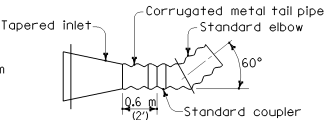
Slip joint to be same
thickness as downline
pipe.

DIA	MIN	M	N
200 mm (8")	3 m (10')	450 mm (18")	200 mm (8")
300 mm (12")	5 m (16')	500 mm (20")	300 mm (12")
375 mm (15")	8 m (26')	600 mm (24")	375 mm (15")
450 mm (18")	9 m (30')	750 mm (30")	450 mm (18")
600 mm (24")	12 m (39')	900 mm (36")	600 mm (24")



PLAN **END VIEW**

Slip joint to be same thickness as downdrain pipe.



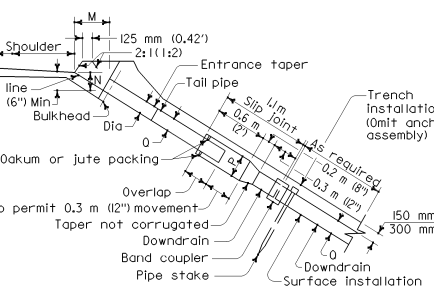
ENTRANCE TAPER - TYPE 2

Tapered inlet of same construction and dimensions as Type 1 - Alternative A or B except tail pipe length will be 0.6 m (2').

Taper joints may be welded or riveted. Dimensions to be as tabulated below for Type 1 Alternatives A and B.

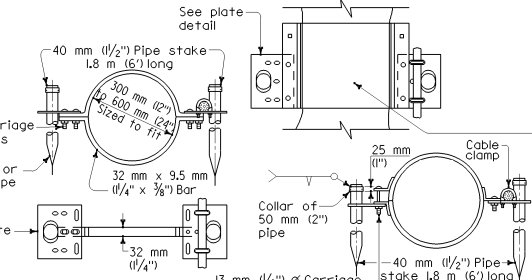
DIA	A	B	C	D	E	F	G
200 mm (8")	40 mm (1 1/2")	650 mm (25 1/2")	380 mm (15")	120 mm (4 3/4")	130 mm (5")	1.8 m (6')	0.6 m (2')
300 mm (12")	46 mm (1 3/4")	650 mm (25 1/2")	485 mm (19")	95 mm (3 3/4")	135 mm (5 1/4")	1.8 m (6')	0.6 m (2')
375 mm (15")	54 mm (2 1/8")	770 mm (30 3/4")	585 mm (23 1/4")	115 mm (4 1/2")	160 mm (6 1/4")	1.8 m (6')	0.6 m (2')
450 mm (18")	60 mm (2 3/8")	860 mm (33 7/8")	685 mm (27 1/4")	125 mm (5")	185 mm (7 1/4")	1.8 m (6')	0.6 m (2')
600 mm (24")	87 mm (3 3/8")	1170 mm (46 1/8")	890 mm (35 1/8")	150 mm (6")	240 mm (9 3/4")	1.2 m (4')	0.4 m (1 1/2')

**ENTRANCE TAPER - TYPE 1
ALTERNATIVE A AND B**



NOTE:

1. Cable, slip joint or anchor assembly to be used when specified.
2. Slip joint to be omitted when completely buried.
3. Slip joint for Type 1 entrance taper shown, Type 2 similar.



ALTERNATIVE A **ALTERNATIVE B**

**CORRUGATED METAL PIPE DOWNDRAIN
ANCHOR ASSEMBLY**

Cable and cable clamps to be used when required by the Special Provisions.

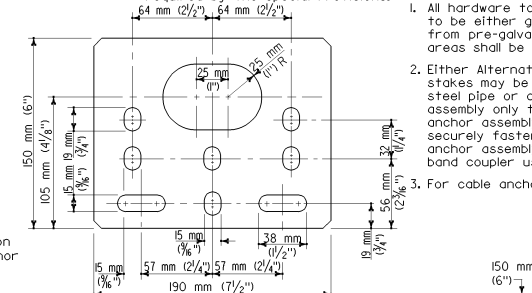
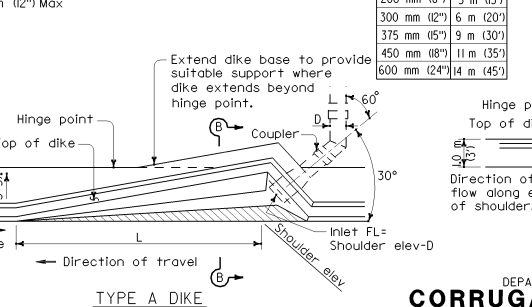


PLATE DETAIL

Material to be 6.4 mm (1/4") plate galvanized after fabrication.



TYPE A DIKE **MOUNTABLE DIKE**

TYPE 2 These "Standard Plans for Construction of Local Streets and Roads" contain units in two systems of measurement: International System of Units (SI or "metric") and United States Standard Measures shown in the parentheses ("). The measurements expressed in the two systems are not necessarily equal or interchangeable. See the "Foreword" at the beginning of this publication.

DIST COUNTY ROUTE KILOMETER POST SHEET TOTAL
TOTAL PROJECT NO. SHEETS

REGISTERED CIVIL ENGINEER
Glenn DeCau
C4541
9-30-03
STATE OF CALIFORNIA

July 1, 2002
PLANS APPROVAL DATE

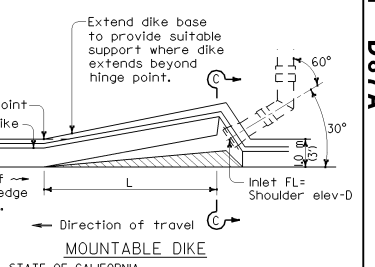
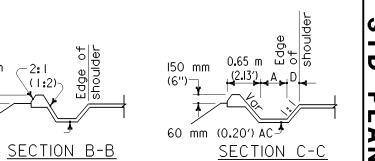
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Caltrans now has a web site! To get to the web site, go to <http://www.dot.ca.gov>

305 mm (12") Annular coupling band
Helical coupling band
Two piece integral flange die formed band for helical corrugated steel pipe
Flatten or point pipe stakes

NOTES:

1. All hardware to be galvanized after fabrication. All pipe stakes to be either galvanized after fabrication, or be fabricated from pre-galvanized pipe. If pre-galvanized pipe is used, weld areas shall be cleaned, and painted with zinc-rich primer.
2. Either Alternative A or Alternative B anchor assemblies and pipe stakes may be used at Contractor's option for corrugated steel pipe or corrugated aluminum pipe. Alternative A anchor assembly only to be placed in annular corrugation. Alternative A anchor assembly may be placed on annular coupling band if securely fastened on downstream side of joint. Alternative B anchor assembly to be fastened to pipe sections and not to a band coupler used to join sections.
3. For cable anchorage system details, see Standard Plan D87C.



MOUNTABLE DIKE

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**CORRUGATED METAL PIPE
DOWNDRAIN DETAILS**

NO SCALE **D87A**

ENTRANCE TAPER AND PIPE DOWNDRAIN